

Stabilizer for a Motor Vehicle

Patent Claims

1. A stabilizer for a motor vehicle, comprising two stabilizer parts (4, 5), which are connected to the wheel suspension of a wheel (1), on the one hand, and with the vehicle body via a mounting point (6), on the other hand, and both said stabilizer parts (4, 5) can be connected to one another via a shiftable and positive-locking clutch (7) comprising at least one radial carrier (14, 16) of one said stabilizer part (4, 5), at least one radial carrier (14, 16) of the other stabilizer part (14, 16) and an, axially displaceable locking piston (17) with locking claws (22), and the locking claws (22) and the carriers (14, 16) have said conical surfaces (23, 24, 25), which fit each other and are designed as force transmission surfaces,

characterized in that

the conical surfaces (23, 24) of the radial carriers (14, 16) and the conical surfaces (23, 25) of the locking claws (22) have an arched cross section over the entire force transmission area, the arch being designed as a concave arch, on the one hand, and as a convex arch, on the other hand.

2. A stabilizer in accordance with claim 1,

characterized in that the conical surfaces (23, 24) of the radial carriers (14, 16) are convex and the conical surfaces (23, 25) of the locking claws (22) are concave.

3. A stabilizer in accordance with claim 1,

characterized in that the radii of the concave and convex arches are equal.